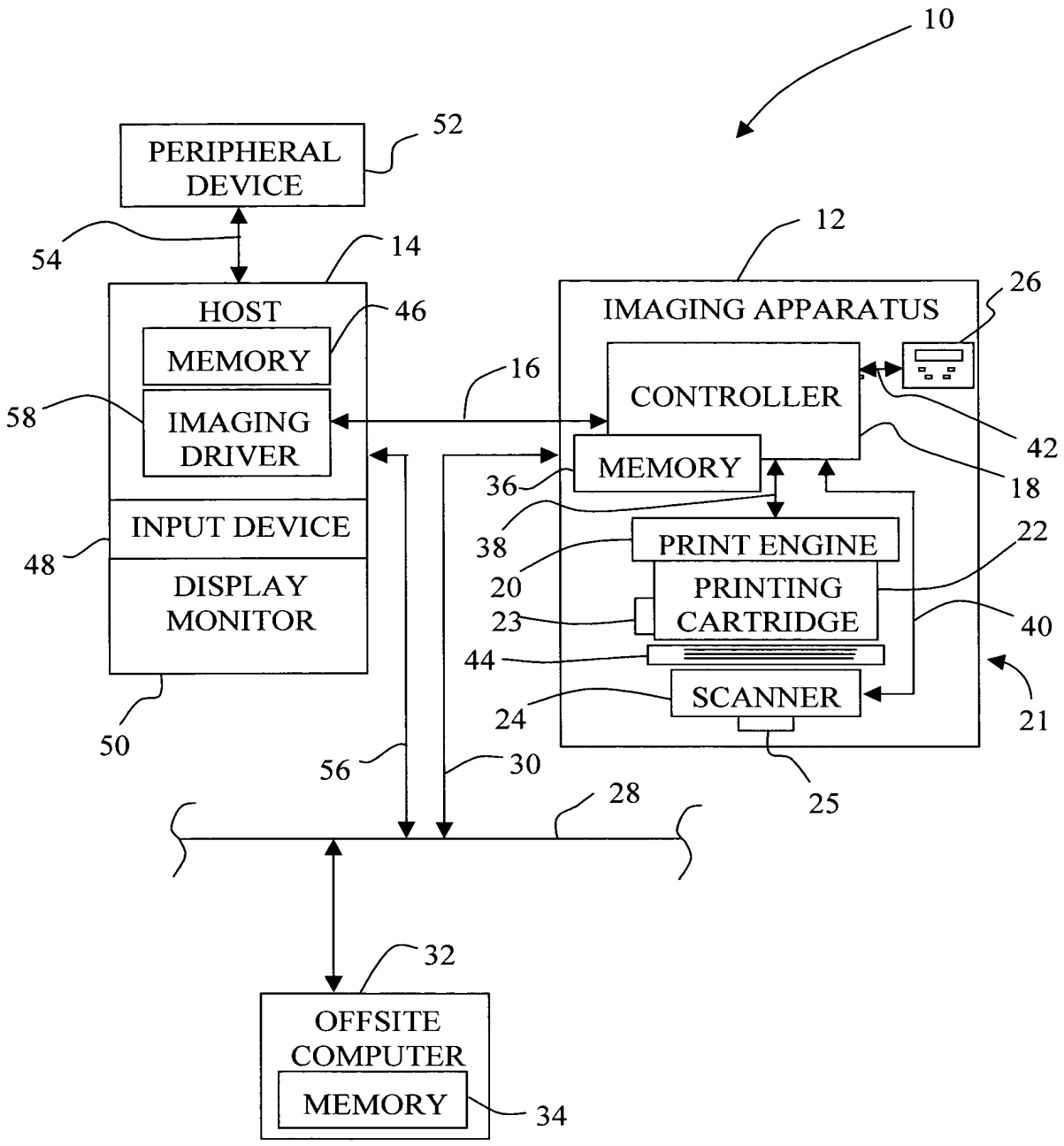
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PERIPHERAL DEVICE
52
54
14
12
HOST
46
MEMORY
IMAGING APPARATUS
26
16
58
IMAGING DRIVER
CONTROLLER
42
MEMORY
36
18
38
INPUT DEVICE
PRINT ENGINE
22
48
20
PRINTING CARTRIDGE
DISPLAY MONITOR
23
40
44
SCANNER
24
21
50
56
30
25
28
32
OFFSITE COMPUTER
MEMORY
34

Fig. 1

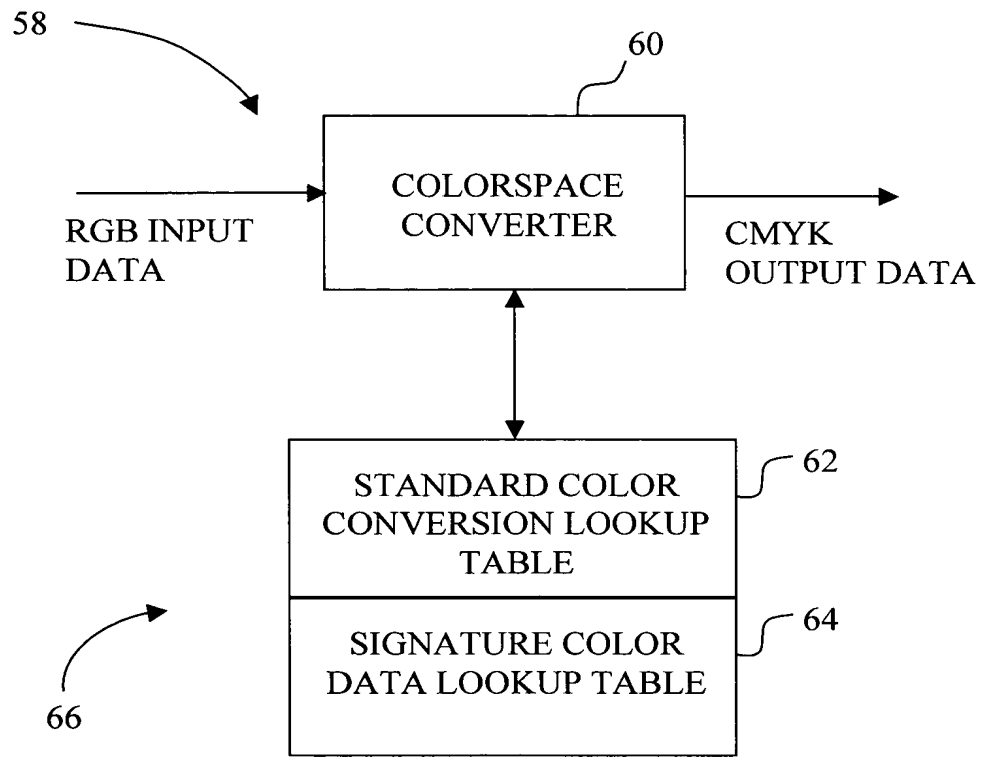
58
60
COLORSPACE CONVERTER
RGB INPUT DATA
CMYK OUTPUT DATA
STANDARD COLOR CONVERSION LOOKUP TABLE
62
SIGNATURE COLOR DATA LOOKUP TABLE
64
66

Fig. 2

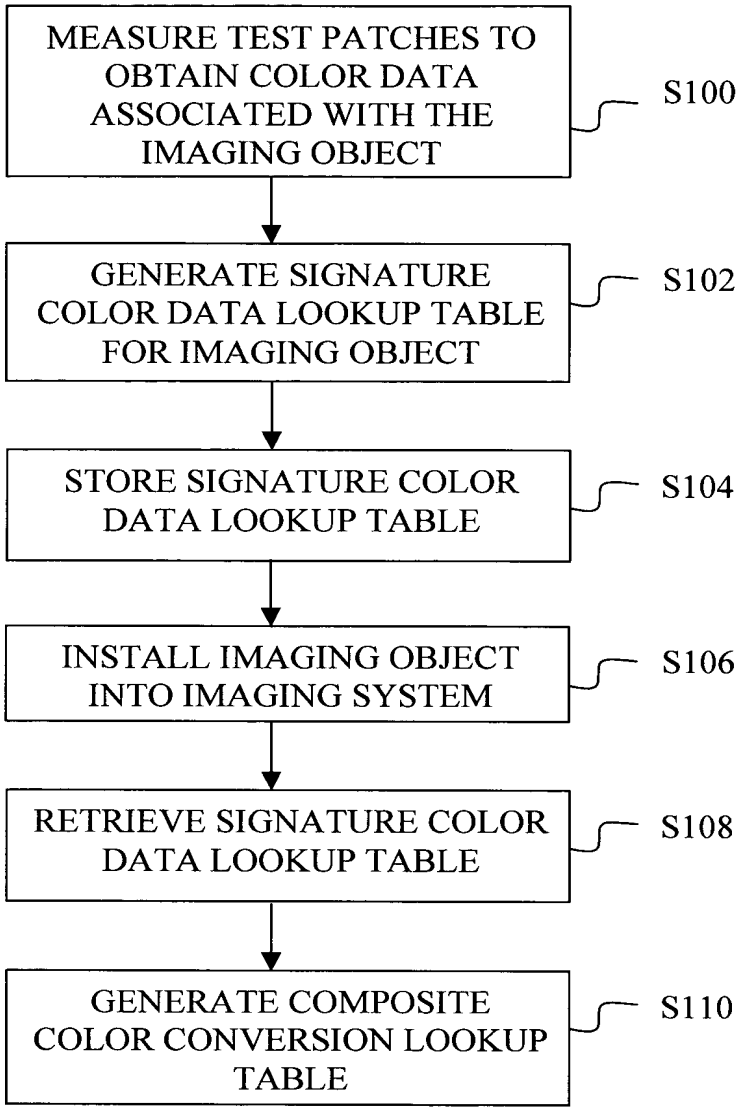
MEASURE TEST PATCHES TO OBTAIN COLOR DATA ASSOCIATED WITH THE IMAGING OBJECT
S100
GENERATE SIGNATURE COLOR DATA LOOKUP TABLE FOR IMAGING OBJECT
S102
STORE SIGNATURE COLOR DATA LOOKUP TABLE
S104
INSTALL IMAGING OBJECT INTO IMAGING SYSTEM
S106
RETRIEVE SIGNATURE COLOR DATA LOOKUP TABLE
S108
GENERATE COMPOSITE COLOR CONVERSION LOOKUP TABLE
S110

Fig. 3

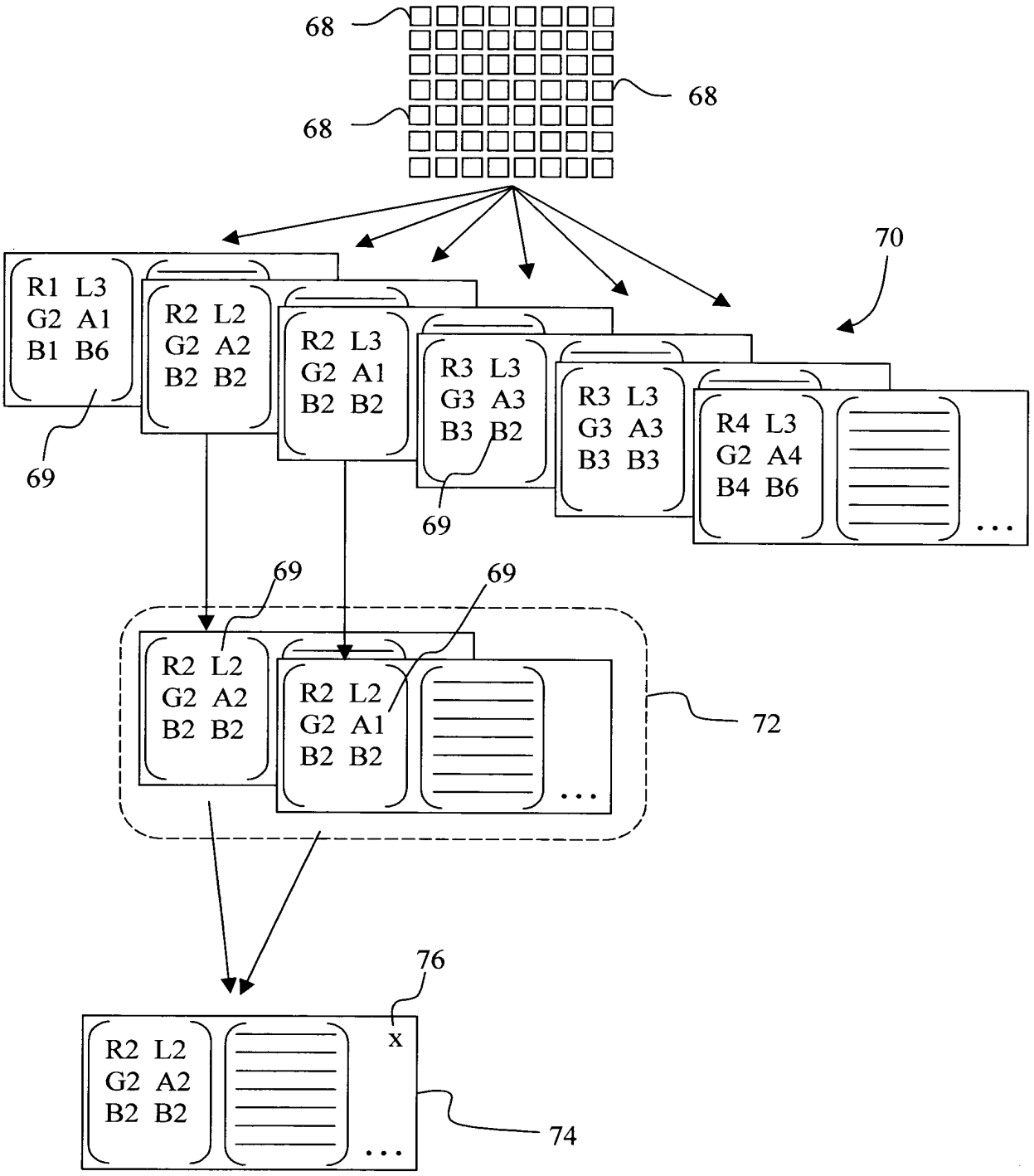
68
68
68
70
R1 L3
G2 A1
B1 B6
R2 L2
G2 A2
B2 B2
R2 L3
G2 A1
B2 B2
R3 L3
G3 A3
B3 B2
R3 L3
G3 A3
B3 B3
R4 L3
G2 A4
B4 B6
69
69
69
69
R2 L2
G2 A2
B2 B2
R2 L2
G2 A1
B2 B2
72
76
x
R2 L2
G2 A2
B2 B2
74

Fig. 4

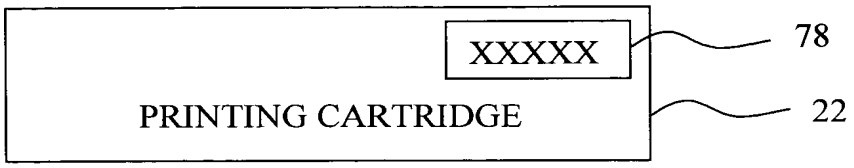

Fig. 5A

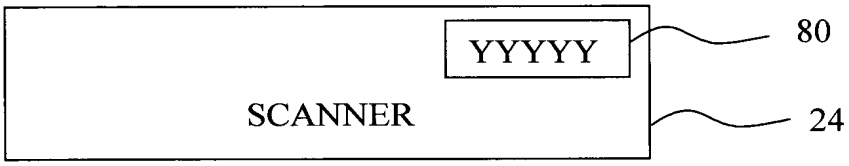

Fig. 5B

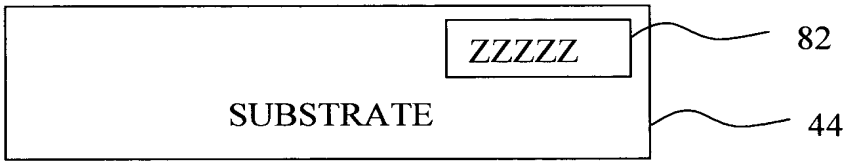

Fig. 5C

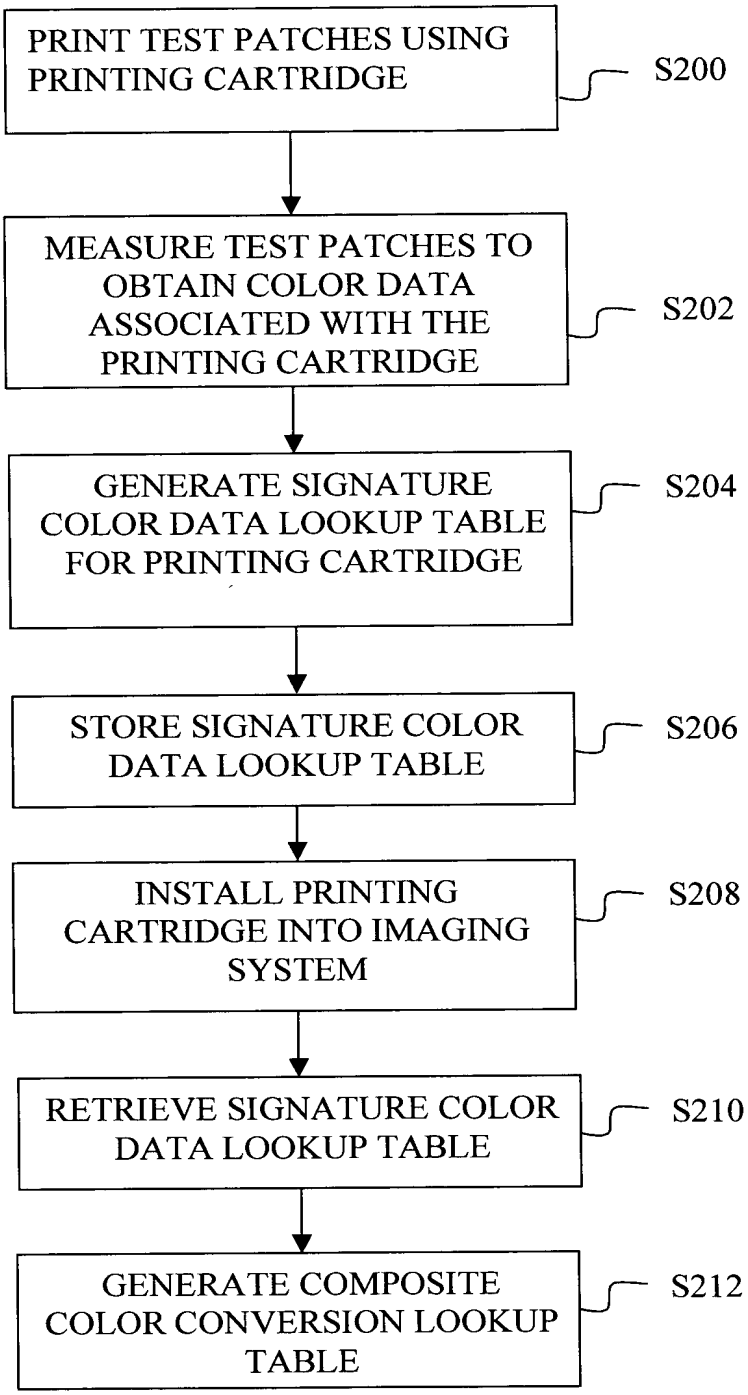
PRINT TEST PATCHES USING PRINTING CARTRIDGE
S200
MEASURE TEST PATCHES TO OBTAIN COLOR DATA ASSOCIATED WITH THE PRINTING CARTRIDGE
S202
GENERATE SIGNATURE COLOR DATA LOOKUP TABLE FOR PRINTING CARTRIDGE
S204
STORE SIGNATURE COLOR DATA LOOKUP TABLE
S206
INSTALL PRINTING CARTRIDGE INTO IMAGING SYSTEM
S208
RETRIEVE SIGNATURE COLOR DATA LOOKUP TABLE
S210
GENERATE COMPOSITE COLOR CONVERSION LOOKUP TABLE
S212

Fig. 6

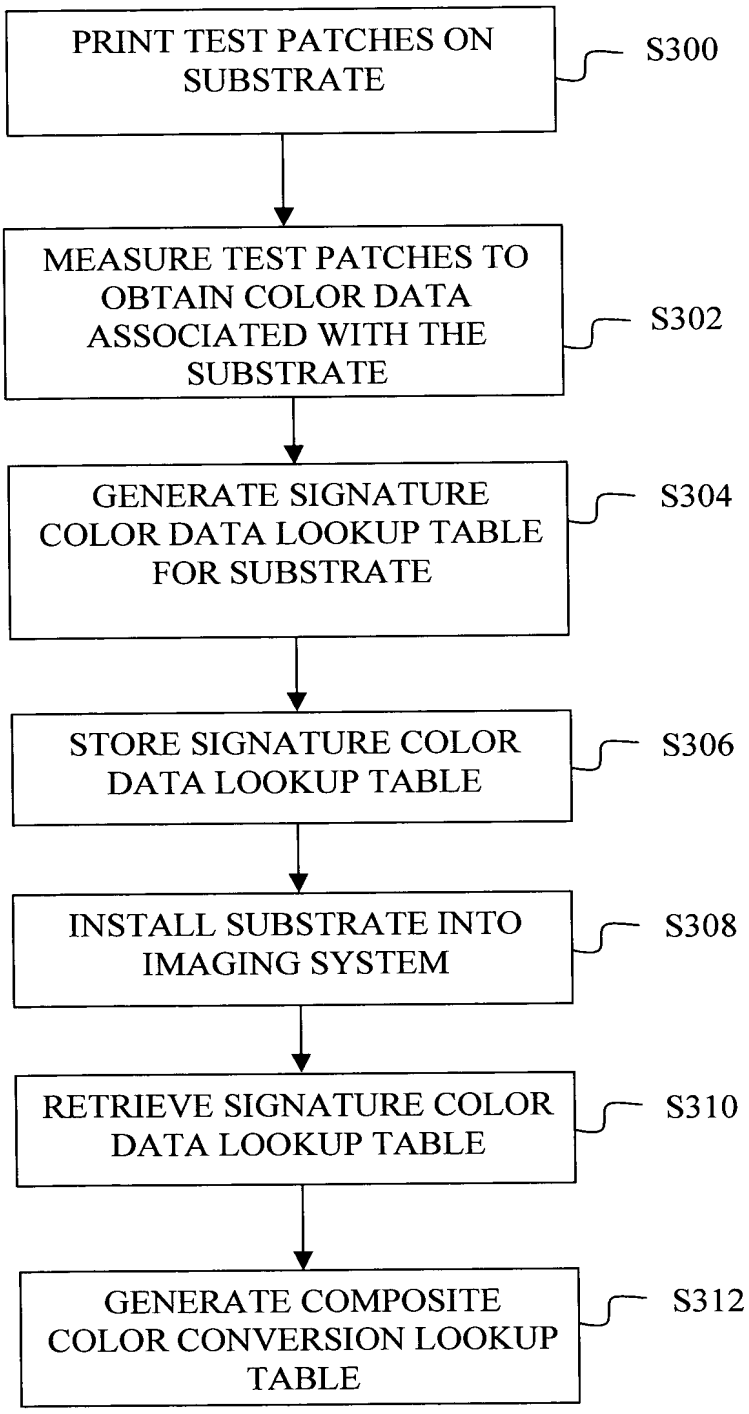
PRINT TEST PATCHES ON SUBSTRATE
S300
MEASURE TEST PATCHES TO OBTAIN COLOR DATA ASSOCIATED WITH THE SUBSTRATE
S302
GENERATE SIGNATURE COLOR DATA LOOKUP TABLE FOR SUBSTRATE
S304
STORE SIGNATURE COLOR DATA LOOKUP TABLE
S306
INSTALL SUBSTRATE INTO IMAGING SYSTEM
S308
RETRIEVE SIGNATURE COLOR DATA LOOKUP TABLE
S310
GENERATE COMPOSITE COLOR CONVERSION LOOKUP TABLE
S312

Fig. 7

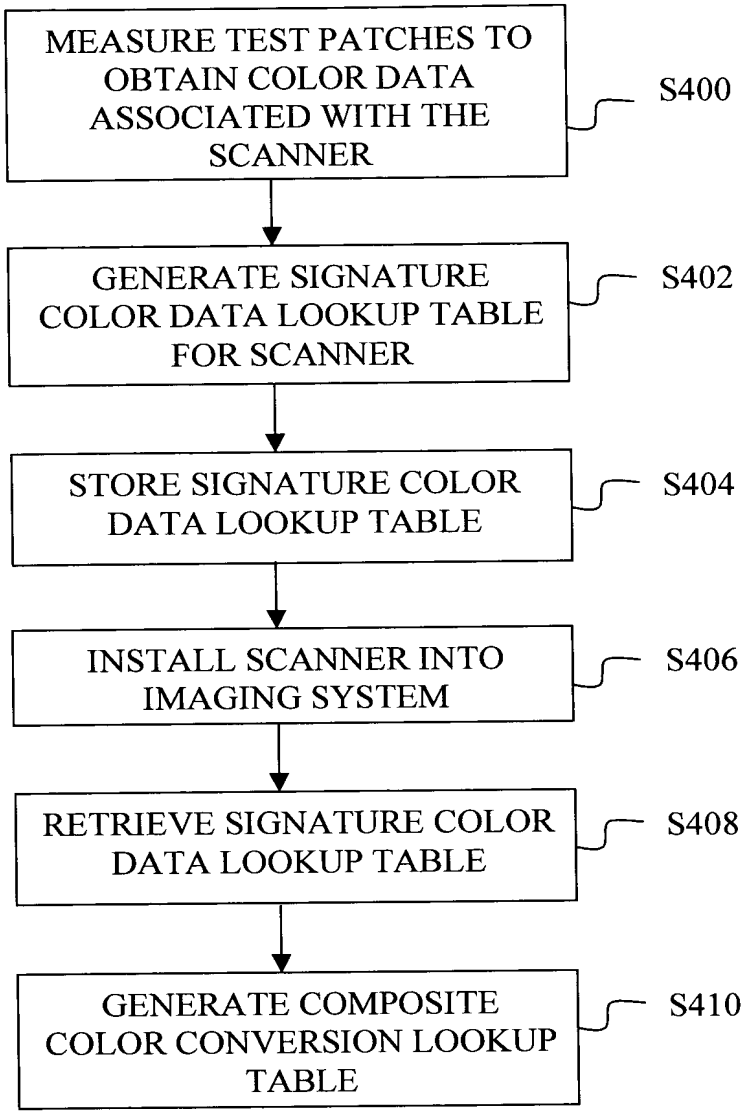
MEASURE TEST PATCHES TO OBTAIN COLOR DATA ASSOCIATED WITH THE SCANNER
S400
GENERATE SIGNATURE COLOR DATA LOOKUP TABLE FOR SCANNER
S402
STORE SIGNATURE COLOR DATA LOOKUP TABLE
S404
INSTALL SCANNER INTO IMAGING SYSTEM
S406
RETRIEVE SIGNATURE COLOR DATA LOOKUP TABLE
S408
GENERATE COMPOSITE COLOR CONVERSION LOOKUP TABLE
S410

Fig. 8